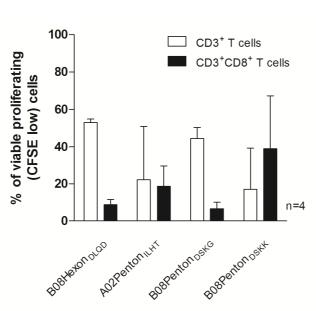
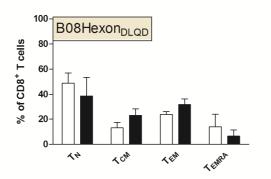
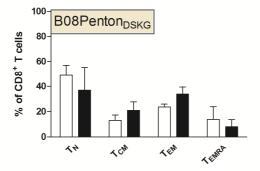
Figure S2. Analysis of HAdV-specific T-cell responses against the novel immunodominant T-cell epitope in healthy donors.

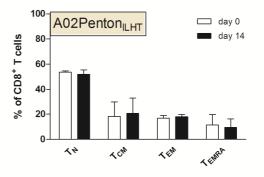


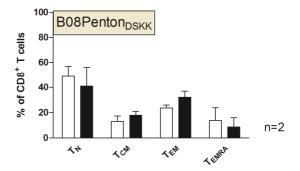


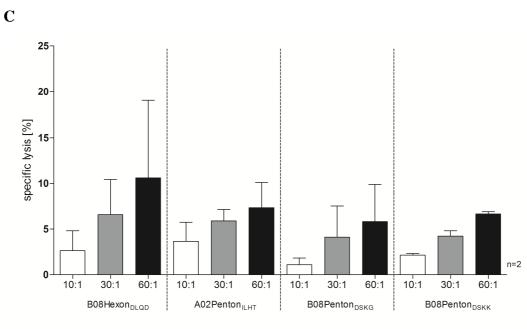
B





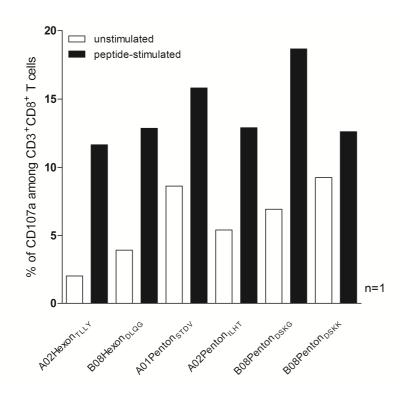








D



HAdV-specific T cells induced by the peptide epitopes identified as low immunodominant (A02Penton_{ILHT}, B08Hexon_{DLQD}, B08Penton_{DSKG}, and B08Penton_{DSKK}; Table 1A) were characterized by multicolor flow cytometry in relation to (**A**) proliferative capacity of peptide-specific T-cell populations, (**B**) CD8⁺ T-cell phenotype, and (**C**) cytotoxicity of CD3⁺CD8⁺ T

cells. (**D**) Cytotoxic potential of $CD3^+CD8^+$ T cells in response to the investigated peptides (low-immunodominant: A02Penton_{ILHT}, B08Hexon_{DLOD}, B08Penton_{DSKG}, B08Penton_{DSKK} and high-immunodominant: A02Hexon_{TLLY}, A01Penton_{STDV}) was assessed by using the CD107a degranulation assay. (A) Carboxyfluorescein succinimidyl ester (CFSE)-labeled PBMCs from healthy donors were stimulated for seven days with the investigated peptides and analyzed for the frequency of viable proliferative CD3⁺ and CD3⁺CD8⁺ T cells (CFSE low). Unstimulated CFSE-labeled PBMCs served as negative controls. Results are expressed as mean \pm SD (n=2). (B) Frequency of naïve (T_N) , central memory (T_{CM}) , effector memory (T_{EM}) , and terminally differentiated effector memory (T_{EMRA}) CD8⁺ T-cell subsets before (day 0) and after two restimulation cycles (day 14). Results are expressed as the mean of two independent experiments \pm SD. (C) The cytotoxic activity of HAdV peptide-specific T cells (effector cells, E, day 14) was analyzed in five-hour cytotoxicity assays. Effector T cells were co-cultured with autologous PBMCs as target cells at E:T ratios of 10:1, 30:10, and 60:1, respectively. The basal cytotoxic activity of effector T cells induced by HAdV peptides against the unloaded target cells was subtracted from the cytotoxic T-cell values against peptide-loaded PBMCs. Results of two independent experiments are expressed as the mean percentage of target cell lysis \pm SD. (D) The cytotoxic activity of HAdV-specific T cells induced by the identified immunodominant peptides (day 14) was verified by CD107a degranulation assay. CD107a expression data are shown for a representative donor (SD, standard deviation).